

5.8 GHz Expandable Cordless Phone System



Operating Instructions

Model No. **KX-TG5230**

Pulse-or-tone dialing capability

The unit is Caller ID compatible. To display the caller's name and phone number, you must subscribe to Caller ID service.

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for 6 hours before initial use.

Panasonic World Wide Web address: <http://www.panasonic.com>
for customers in the USA or Puerto Rico

Thank you for purchasing your new Panasonic cordless telephone.

Please read the IMPORTANT SAFETY INSTRUCTIONS on page 73 before use. Read and understand all instructions.

Caller ID, Call Waiting and Voice Mail Service, where available, are telephone company services. After subscribing to Caller ID this phone will display a caller's name and phone number. Call Waiting Caller ID, which displays a second caller's name and phone number while the user is on another call, requires a

Expanding Your Phone

KX-TG5230 includes one handset and one base unit. You can expand the system by adding up to 3 accessory handsets, sold separately.

A maximum of 4 handsets can be registered to the base unit.

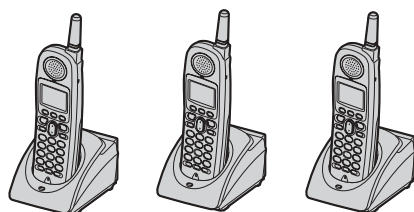
The model numbers of the accessory handsets are KX-TGA520 and KX-TGA523. A charger is included with each accessory handset.

To order, contact your dealer or call 1-800-211-PANA(7262) to locate a dealer.



+

Up to 3 accessory handsets can be added.



The illustration is KX-TGA520.

The included handset is pre-registered at the factory and assigned the extension number 1.

After purchasing accessory handsets, you must register each to the base unit. (Please read the accessory handset's Installation Manual.)

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Important

Throughout these Operating Instructions, **Handset** and **Base Unit** are used to indicate with which unit an operation can be performed.

Handset : Perform with the handset.

Base Unit : Perform with the base unit.

Handset Base Unit : Perform with the handset and base unit separately.

Handset & Base Unit : Perform with the handset and base unit together.

For Best Performance

Battery charge

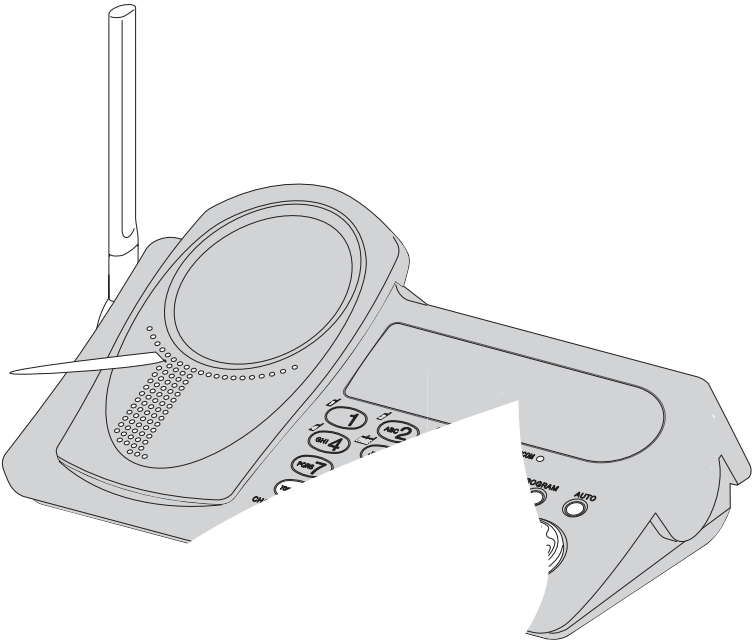
The handset is powered by a rechargeable Nickel-Metal Hydride (Ni-MH) battery. Charge the battery for **6 hours** before initial use (p. 12).

Base unit location

When using a microwave oven which is being used, noise may be heard. Move away from the microwave oven and use the cordless phone's base unit, noise may be heard. Move away from the cordless phone's base unit and closer to your

Location of Controls

Base unit



Location of Controls

I

Preparation

Throughout the operating Instructions, the soft keys are indicated such as T

Handset navigation

key

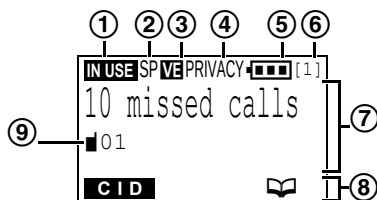
Scrolls up [▲] and down [▼] the function menu.
Caller List and the phone book.
Increases [▲] or decreases [▼] the handset receiver/speaker volumes.

Base unit receiver

selector key

Increases [▲]
speaker volume.
Selects

Display



① "IN USE" functions as follows.

Off (invisible)	The line is free.
On	The line is being used.
Flashing	A call is on hold on the handset or base unit.
Flashing rapidly	A call is being received.

② "SP" is shown when you are using the handset speakerphone.

③ "VE" indicates Voice Enhancer mode is on (p. 24).

④ "PRIVACY" indicates Call Privacy mode is on (p. 54). Other extension users cannot join your conversation.

⑤ The battery icon indicates battery strength (p. 12).

⑥ The extension number of your handset is displayed if it has been registered to the base unit (p. 3, 65, 66).

⑦ The display shows the dialed number, call status, programming options, phone book items, Caller ID information, etc.

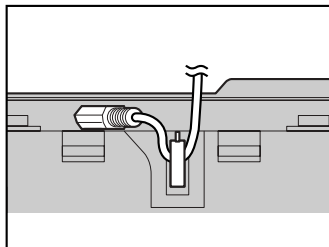
⑧ The icons on the bottom line indicate the functions of the corresponding soft keys which are located directly below the display (p. 9).
Ex. The soft key below "☰" (phone book icon) is used when storing or viewing phone book items (p. 34, 36).

⑨ "■" (extension icon) and extension numbers are displayed (ex. base unit="0", handset 1="1")

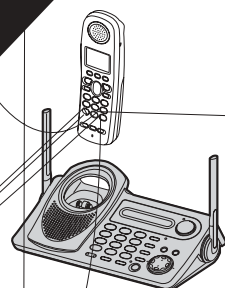
- a) during an intercom call (p. 42) or a conference call (p. 48);
- b) while monitoring a room (p. 50).

Installation

Connections



- USE ONLY WITH Panasonic AC ADAPTOR PQLV1 (Order No. PQLV1Z).
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- If your unit is connected to a PBX which does not support Caller ID and voice mail services, you cannot access those services.
- This unit will not function during a power failure. We recommend connecting a standard telephone to the same telephone line or to the same telephone jack using the Panasonic KX-J66 T-adaptor.

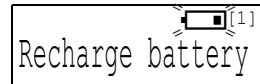


Display prompt	Battery strength
	Fully charged
	Medium
	Low
 (flashing)	Needs to be recharged.
	Discharged

Recharge

Recharge the battery when:

- “Recharge battery” is displayed on the handset,
- “” flashes, or
- the handset beeps intermittently while it is in use.



- The display will continually indicate “Recharge battery” and/or “” will flash when the handset battery is charged for less than 15 minutes and the handset is lifted off the base unit.
- If the battery has been discharged, the handset will display “Charge for 6 HRS” and “” when you place the handset on the base unit. The handset will not work unless the battery is charged. Continue charging.

Battery replacement:

If you cleaned the charge contacts and fully charged the battery, but after a few telephone calls, “Recharge battery” is displayed and/or “” continues to flash, or “Charge for 6 HRS” and “” are displayed, the battery may need to be replaced. Please order a new Panasonic HHR-P104 battery at the telephone number shown on page 2. To replace the battery, see page 12.

A nickel metal hydride battery that is recyclable powers the product you have purchased. Please call 1-800-8-BATTERY for information on how to recycle this battery.



Battery information

After your Panasonic battery is fully charged, you can expect the following performance:

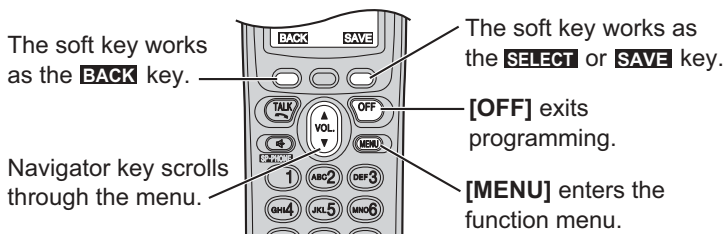
Operation	Operating time
While in use (TALK)	Up to 5 hours
While not in use (Standby)	Up to 11 days
While using the Clarity Booster feature (p. 24)	Up to 3 hours

- A fully charged battery will give you up to 5 hours of continuous talk time, or keep your handset in Standby mode to receive incoming calls for up to 11 days (if no phone calls are made). Battery power is consumed whenever the handset is off of the base unit, even when the handset is not in use. The longer you leave the handset off of the base unit, the time you can actually talk on the handset will be shortened. Actual battery performance depends on a combination of how often the handset is in TALK mode and how often it is in Standby mode.
- **Clean the charge contacts of the handset and the base unit with a soft, dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** Otherwise the battery may not charge properly.
- If the battery is fully charged, you do not have to place the handset on the base unit until “Recharge battery” is displayed and/or “” flashes. This will maximize the battery life.
- If you want to keep the battery fully charged at all times, place the handset on the base unit when the handset is not used. The battery cannot be overcharged.
- When the Clarity Booster feature is turned on automatically or manually, battery operating time may be shortened (p. 24).

Programmable Settings

Programming Guidelines **Handset**

The unit has several programmable functions which can be selected from the function menu on the display (p. 15).

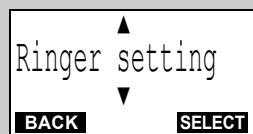


How to select a function item from the menu

Make sure the handset and base unit are not being used. The handset must be operated near the base unit and while off the base unit.

1 Press **[MENU]**.

- The main menu is displayed (p. 15).



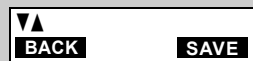
2 Scroll to the desired item by pressing **[▼]** or **[▲]**.

3 Press the soft key (**SELECT**) to select the desired item.

- #### 4
- If the item has a sub-menu, select the menu item (p. 15). Repeat steps 2 and 3 until the desired item is displayed.
 - If the item has no sub-menu, go to step 5.

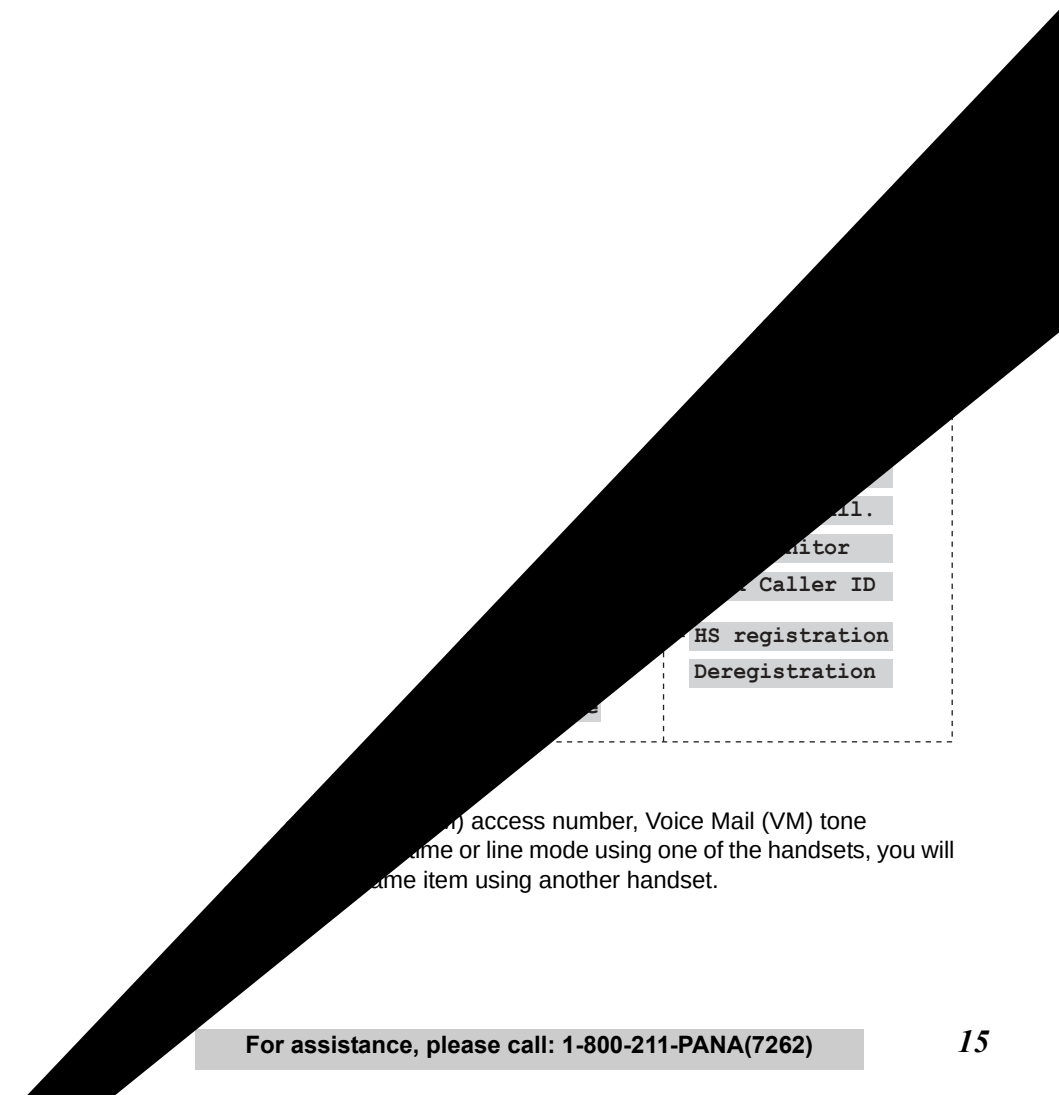
5 Select the desired setting by pressing **[▼]** or **[▲]**, then press the soft key (**SAVE**).

- A confirmation tone will be heard and the setting will be saved.



6 Press **[OFF]** to exit programming mode.

- To go back to the previous menu, press the soft key (**BACK**), or press the soft key (**SELECT**) while "--- (Go back) ---" is displayed. If you press this key in the main menu, the unit will exit programming mode.
- After programming is complete, the display will return to the main menu or the sub-menu depending on which menu the selected item is located. (See the menu table on page 15.)
- You can exit programming mode at any time by pressing **[OFF]**.
- If you do not press any buttons for 60 seconds, the unit will exit programming mode.
- If the unit detects a problem, an error message will be displayed (p. 67–69) and/or error beeps will sound.



11.
Monitor
Caller ID
HS registration
Deregistration

access number, Voice Mail (VM) tone
time or line mode using one of the handsets, you will
same item using another handset.

Programmable Settings

Display Language **Handset**

You can select either “English” or “Spanish” as the display language. The factory preset is “English”.

1 Press [MENU] .	
2 Scroll to “Initial setting” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Initial setting
3 Scroll to “Change language” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Change language
4 To change from English to Spanish, press the soft key (ESPAÑOL) . To change from Spanish to English, press the soft key (ENGLISH) . • The display changes to the selected language. • You can also select the display language by pressing [▼] or [▲].	Display :English
5 When Spanish is selected, press the soft key (GUARDAR) , then press [OFF] . When English is selected, press the soft key (SAVE) , then press [OFF] .	

- If you select a language you cannot read, change the display language again using direct commands (p. 63).

Dialing Mode **Handset**

If you have touch tone service, set the dialing mode to “Tone”. For rotary or pulse service, set to “Pulse”. The factory preset is “Tone”.

1 Press [MENU] .	
2 Scroll to “Initial setting” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Initial setting
3 Scroll to “Set tel line” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Set tel line
4 Press the soft key (SELECT) at “Set dial mode”.	Set dial mode
5 Select “Pulse” or “Tone” by pressing [▼] or [▲] .	Set dial mode :Tone
6 Press the soft key (SAVE) , then press [OFF] .	

Line Mode **Handset**

The line mode is preset to “B” and generally should not be adjusted. If “**IN USE**” is not displayed on the handset properly, the line mode selection is incorrect. Set line mode to “A”.

1 Press [MENU] .	
2 Scroll to “Initial setting” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Initial setting
3 Scroll to “Set tel line” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Set tel line
4 Scroll to “Set line mode” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Set line mode
5 Select “A” or “B” by pressing [▼] or [▲] .	Set line mode :B
6 Press the soft key (SAVE) , then press [OFF] .	

Auto Talk **Handset**

The Auto Talk feature allows you to answer calls by simply lifting the handset off the base unit (or the charger, for accessory handset users, p. 3). You do not need to press **[📞]** or **[📞]**. The factory preset is OFF.

1 Press [MENU] .	
2 Scroll to “Initial setting” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Initial setting
3 Scroll to “Auto talk” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Auto talk
4 Select “On” or “Off” by pressing [▼] or [▲] .	Auto talk :Off
5 Press the soft key (SAVE) , then press [OFF] .	

- In order to view Caller ID information after you lift the handset to answer a call, leave the Auto Talk feature turned off.

Programmable Settings

Ringer Volume

You can set the handset and base unit ringer volumes to high, medium, low, or off. The factory preset is HIGH. If the handset or base unit ringer is turned off, the handset or base unit will ring at the low level for intercom calls, and will not ring for outside calls. Caller names will not be announced even if the Talking Caller ID feature is turned on (p. 28, 29).

Handset ringer volume **Handset**

1 Press [MENU] .	
2 Press the soft key (SELECT) at "Ringer setting".	Ringer setting
3 Press the soft key (SELECT) at "Ringer volume".	Ringer volume
4 Select the desired volume by pressing [▼] or [▲] . • The volume will change and ring. • The number of steps indicates the volume level. • To turn the ringer off, press [▼] repeatedly until "Off ?" is displayed.	Ex. High Ringer volume Low  High Ex. Off Ringer volume Off ?
5 Press the soft key (SAVE) .	

- If the handset ringer is turned off, the handset displays "Ringer off" while not in use. When there are new messages in your voice mailbox (p. 53), "Ringer off" is not displayed.
- You can also adjust the ringer volume while an outside call is ringing. Press **[▼]** or **[▲]** while the handset is ringing.

Temporary ringer off

While the handset is ringing for an outside call, you can turn the ringer off temporarily by pressing **[OFF]**. The handset will ring again as normal the next time a call is received.

Base unit ringer volume **Base Unit**

Make sure the base unit is not being used.

To set the ringer volume to high (preset), medium, or low, press [▼] or [▲].

- To increase volume, press [▲]. To decrease volume, press [▼].
- To stop ringing, press [0].

To turn the ringer off, press and hold [▼] until 2 beeps sound.

To turn the ringer on, press [▼] or [▲].

- The base unit will ring at the low level.
- You can adjust the ringer volume while an outside call is ringing.
Press [▼] or [▲] while the base unit is ringing.
To turn the ringer off, press and hold [▼] until 2 beeps sound.

Ringer Tone

You can set the handset and base unit ringers to use one of 7 ringer patterns for outside calls. "Tone 1" to "Tone 3" are bell ringer patterns. "Melody 1" to "Melody 4" are melody patterns. The factory preset is "Tone 1".

- You cannot change the ringer tone for intercom calls.
- If you subscribe to a Distinctive Ring Service (such as IDENTA-RING) from your telephone company with 2 or 3 consecutive rings, select a bell ringer pattern (Tone 1 to 3). If you select a melody pattern, you will not be able to distinguish lines by their rings.
- If you select one of the melody ringer patterns, the ringer will continue to sound for several seconds if:
 - the caller hangs up before you answer the call, or
 - another person answers the call using another phone connected on the same line.

Handset ringer tone **Handset**

1 Press [MENU].

2 Press the soft key (**SELECT**) at "Ringer setting".

Ringer setting

3 Scroll to "Ringer tone" by pressing [▼] or [▲], then press the soft key (**SELECT**).

Ringer tone

4 Select the desired ringer tone by pressing [▼] or [▲].

Ringer tone
1:Tone 1

- The handset will ring and the ringer tone will change. If the ringer volume has been turned off, the handset will not ring (p. 18).
- You can also select the ringer tone by pressing [1] to [7].

5 Press the soft key (**SAVE**), then press [OFF].

Programmable Settings

Base unit ringer tone (use either the handset or the base unit)

Base Unit

Make sure the base unit is not being used.

- 1 Press [**◀**] or [**▶**].
 - The base unit will ring using the current ringer tone. If the ringer volume has been turned off, the base unit will not ring (p. 19).
- 2 Press [**◀**] or [**▶**] repeatedly to select the desired tone.
 - Each time you press [**◀**] or [**▶**], another ringer tone will be heard and selected.
 - To stop ringing, press [**0**].
 - You can also select the ringer tone by pressing [**1**] to [**7**].
[**1**] to [**3**]: Bell ringer patterns [**4**] to [**7**]: Melody patterns

Selecting the base unit ringer tone by using the Handset

- 1 Press [**MENU**].
- 2 Scroll to “Initial setting” by pressing [**▼**] or [**▲**], then press the soft key (**SELECT**).
- 3 Scroll to “Set base unit” by pressing [**▼**] or [**▲**], then press the soft key (**SELECT**).

Set base unit
- 4 Press the soft key (**SELECT**) at “Ringer tone”.

Ringer tone
- 5 Select the desired ringer tone by pressing [**▼**] or [**▲**].
 - When selecting the ringer tone, the base unit will ring. If the base unit ringer volume has been turned off, the base unit will not ring (p. 19).
 - You can also select the ringer tone by pressing [**1**] to [**7**].
[**1**] to [**3**]: Bell ringer patterns
[**4**] to [**7**]: Melody patterns

Ringer tone
1:Tone 1
- 6 Press the soft key (**SAVE**), then press [**OFF**].

LCD Contrast **Handset**

There are 6 levels of LCD contrast. The factory preset is “level 3”.

1 Press [MENU] .	
2 Scroll to “Initial setting” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Initial setting
3 Scroll to “LCD contrast” by pressing [▼] or [▲] , then press the soft key (SELECT) .	LCD contrast
4 Select the desired contrast by pressing [▼] or [▲] . - The contrast will change. - The number of steps indicates the contrast level.	Ex. Level 3 LCD contrast Low  High
5 Press the soft key (SAVE) , then press [OFF] .	

Message Alert **Handset**

You can select whether or not the Ringer/Message Alert indicator on the handset will flash slowly when new messages in your voice mailbox have been recorded (p. 53). The factory preset is OFF.

1 Press [MENU] .	
2 Scroll to “Initial setting” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Initial setting
3 Scroll to “Message alert” by pressing [▼] or [▲] , then press the soft key (SELECT) .	Message alert
4 Select “On” or “Off” by pressing [▼] or [▲] .	Message alert :Off
5 Press the soft key (SAVE) , then press [OFF] .	

- The Ringer/Message Alert indicator will not flash for new messages while the handset is in use.
- The Ringer/Message Alert indicator acts as a ringer indicator and as a message alert indicator. This indicator will flash rapidly when a call is received whether this feature is on or off.
- Battery operating time may be shortened when using this feature (p. 13).

Making Calls

System capabilities (Operating more than one handset, p. 3)

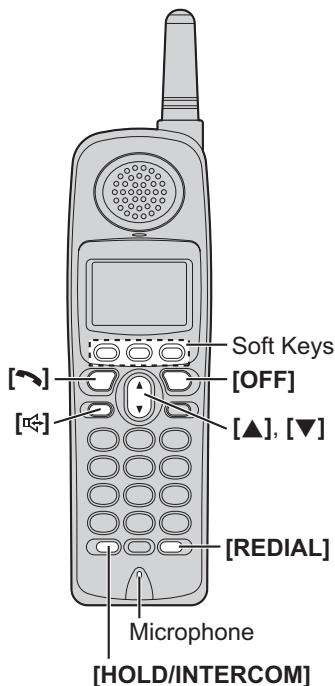
Up to 3 extensions (3 handsets or 2 handsets and the base unit) can operate at a time. The maximum operating number may decrease depending on the state of use.

Using the Handset **Handset**

- 1 Press [**📞**].
 - "Talk" is displayed.
- 2 Dial a phone number.
 - The dialed number is displayed.
 - After a few seconds, the display will show the length of the call.
- 3 To hang up, press [**OFF**] or place the handset on the base unit.

To have a hands-free phone conversation

- 1 Press [**📞**].
 - "SP-phone" is displayed.
- 2 Dial a phone number.
 - The dialed number is displayed.
 - After a few seconds, the display will show the length of the call.
- 3 When the other party answers, talk into the microphone.
- 4 To hang up, press [**OFF**] or place the handset on the base unit.



Hands-free Digital Duplex Speakerphone

For best performance, please note the following:

- Talk alternately with the other party in a quiet room.
- If you or the other party has difficulty hearing, press [**▼**] to decrease the speaker volume.
- While talking using [**📞**], you can switch to a hands-free phone conversation by pressing [**📞**]. To switch back to the receiver, press [**📞**].

To dial after confirming the entered number

1. Enter a phone number.

3334444

- If you misdial, press the soft key **(CLEAR)**. Enter the correct phone number.
 - If a pause is required when dialing, press the soft key **(PAUSE)** where needed (p. 55).
 - To cancel, press **[OFF]**.
2. Press **[↶]** or **[↷]**.
 3. To hang up, press **[OFF]** or place the handset on the base unit.

To adjust the receiver/speaker volume during a conversation

There are 3 volume levels for the receiver and 6 volume levels for the speaker.

To increase volume, press **[▲]**.
To decrease volume, press **[▼]**.

Ex. Receiver volume: High
Speaker volume: Level 6



- The display shows the current volume setting.
- If you try to increase/decrease volume when it is at the maximum/minimum level, the handset will beep 3 times.

To redial the last number dialed

Press **[↶]** or **[↷]**, then press **[REDIAL]**.

To redial using the redial list (Memory Redial)

The last 5 phone numbers dialed are stored in the redial list.

1. Press **[REDIAL]**.
 - The last number dialed is displayed.
2. Scroll to the desired number by pressing **[▼]** or **[▲]**.
 - You can also scroll down through the list by pressing **[REDIAL]**.
 - To exit the list, press **[OFF]**.
3. Press **[↶]** or **[↷]**.
 - **To erase an item**, scroll to the item then press the soft key **(ERASE)**.
 - If "No items stored" is displayed, the list is empty.

To put a call on hold

1. Press **[HOLD/INTERCOM]** during a conversation.
 - "Press extension# to transfer" is displayed.
 - To transfer the call to the base unit or another handset, see page 45.
2. Press **[HOLD/INTERCOM]** again.
 - "Hold" is displayed.

To return to the call, press **[↶]** or **[↷]**.

- The base unit user can also take the call by pressing **[SP-PHONE]**.
- Another handset user can also take the call by pressing **[↶]** or **[↷]**.
- If another phone is connected on the same line (p. 11), you can also take the call by lifting its handset.
- If a call is kept on hold for 6 minutes, an alarm tone will start to sound and the Ringer/Message Alert indicator will start to flash rapidly. After 4 additional minutes on hold, the call will be disconnected.

Making Calls

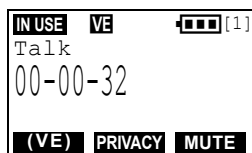
Voice Enhancer Technology

Panasonic's Voice Enhancer Technology clarifies the voice of the person you are talking to, reproducing a more natural-sounding voice that is easier to hear and understand. Voice Enhancer Technology can be turned on or off. The factory preset is OFF.

- Depending on the condition and quality of your telephone line, this feature may emphasize existing line noise. If it becomes difficult to hear, turn this feature off.

To turn this feature on, press the soft key **((VE))** during a conversation.

- "VE"** is displayed.
- To turn this feature off**, press the soft key **((VE))** again. **"VE"** disappears from the display.



- After hanging up a call, the on/off setting will be retained.

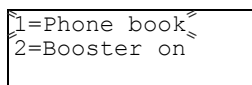
When the handset is not in use, you can also turn this feature on or off by programming as follows:

- Press **[MENU]**.
- Scroll to "Voice enhancer" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.
- Select "On" or "Off" by pressing **[▼]** or **[▲]**.
- Press the soft key **(SAVE)**, then press **[OFF]**.

Clarity Booster

This feature can improve sound clarity when the handset is used in an area where there may be interference. During an outside call, this feature will be turned on automatically when necessary. This feature will turn off when you hang up, put a call on hold, or make a conference call. It will not turn off automatically during a call. You can also turn this feature on or off manually.

- Press **[MENU]** during an outside call.
- Press **[2]** to select "2=Booster on" or "2=Booster off".



- You can also select "2=Booster on" or "2=Booster off" by pressing **[▼]** then pressing the soft key **(SELECT)**.
- While this feature is turned on, "Booster on" will flash during a conversation.
- If this feature is turned off manually during a call, it will not be turned on automatically during the same call.
- When this feature is turned on automatically or manually, battery operating time may be shortened (p. 13).
- The maximum number of extensions which can be used at a time may decrease when using this feature.

Backlit LCD display/Lighted handset keypad

The handset display and dialing buttons will light for a few seconds after pressing a button or lifting the handset off the base unit (or the charger, for accessory handset users, p. 3).

Using the Base Unit **Base Unit**

1 Press **[SP-PHONE]**.

- The indicator lights.

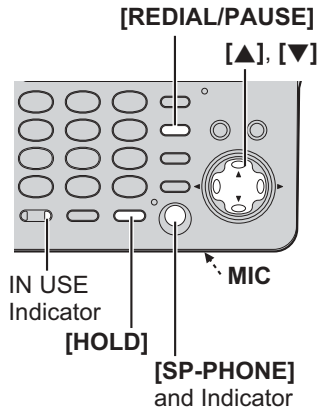
2 Dial a phone number.

- If you misdial, press **[SP-PHONE]** and start again from step 1.

3 When the other party answers, talk into the **MIC** (microphone).

4 To hang up, press **[SP-PHONE]**.

- The indicator light goes out.



- To switch to the handset while using the base unit speakerphone:
 - If the handset is off the base unit, press **[📞]** or **[📞]** on the handset, then press **[SP-PHONE]** on the base unit.
 - If the handset is on the base unit, just lift up.

Hands-free Digital Duplex Speakerphone

For best performance, please note the following:

- Talk alternately with the other party in a quiet room.
- If you or the other party has difficulty hearing, press **[▼]** to decrease the speaker volume.

To adjust the speaker volume

To increase volume, press **[▲]**. To decrease volume, press **[▼]**.

- There are 8 volume levels. If you try to increase/decrease volume when it is at the maximum/minimum level, the base unit beeps 3 times.

To redial the last number dialed

Press **[SP-PHONE]**, then press **[REDIAL/PAUSE]**.

To put a call on hold

Press **[HOLD]** during a conversation.

- The SP-PHONE indicator and IN USE indicator flash.

To return to the call, press **[SP-PHONE]**.

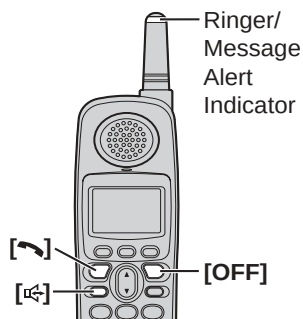
- The handset users can also take the call by pressing **[📞]** or **[📞]**.
- If another phone is connected on the same line (p. 11), you can also take the call by lifting its handset.
- If a call is kept on hold for 6 minutes, an alarm tone will start to sound. After 4 additional minutes on hold the call will be disconnected.

Answering Calls

When a call is received, the unit rings, "Incoming call" is displayed, and the Ringer/Message Alert indicator on the handset and the IN USE indicator on the base unit flash rapidly.

Handset

- 1 Press [] or [].
 - You can also answer a call by pressing any button except [, [, or [**OFF**].
- 2 To hang up, press [**OFF**] or place the handset on the base unit.



Auto Talk

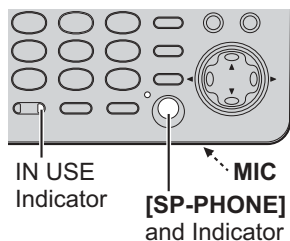
If the Auto Talk feature is turned on (p. 17), you can answer a call by simply lifting the handset off the base unit (or the charger, for accessory handset users, p. 3).

Temporary ringer off

While the handset is ringing for an outside call, you can turn the ringer off temporarily by pressing [**OFF**]. The handset will ring again as normal the next time a call is received.

Base Unit

- 1 Press [**SP-PHONE**].
- 2 Talk into the MIC.
- 3 To hang up, press [**SP-PHONE**].



- To transfer the call to another extension, see page 45.
- If the ringer volume is turned off, the unit will not ring (p. 18, 19).

Caller ID Service

This unit is compatible with Caller ID services offered by your telephone company. If you subscribe to Caller ID, caller names and phone numbers will be displayed and recorded in the Caller List.

How Caller ID information is displayed and announced

When a call comes in, the unit will ring and Caller ID information will be received. The handset display will show the caller's information, then the handset and base unit will announce the displayed name (ex. "Call from ROBINSON, TINA") following every ring (**Talking Caller ID feature**, p. 28).

Example

ROBINSON, TINA
1-555-222-3333

- The handset and base unit announce the caller's name repeatedly until the call is answered.
- After you answer the call, the display will show the length of the call.
- If the unit does not receive Caller ID information, one of the following will be displayed:

Display	Meaning
Out of area	The caller dialed from an area which does not provide Caller ID service.
Private caller	The caller requested not to send his/her information.
Long distance	The caller made a long distance call.

- Depending on radio communications with the base unit, the handset may not display Caller ID information immediately after the first ring.
- If your unit is connected to a PBX which does not support Caller ID, you cannot access Caller ID service.
- Name display service may not be available in some areas. For further information, please contact your telephone company.
- If you subscribe to both Caller ID and Call Waiting with Caller ID service (CWID), when a second call is received while talking, a call waiting tone will be heard and the second caller's information will be displayed (p. 55).
Contact your telephone company for details about availability in your area, and to verify that CWID service is activated on your telephone line.

Caller ID Service

Talking Caller ID **Handset** **Base Unit**

To use this feature, you need to subscribe to Caller ID. For further information, please contact your telephone company.

- If the unit does not receive Caller ID information, the unit will announce “Call from out of area”, “Call from private caller”, or “Call from long distance”. If a call is received from an area where name display service is not available, “Number available” will be announced.
- If the ringer volume of the handset and the base unit is off, caller names will not be announced. The announcement is heard at the handset or base unit ringer volume (p. 18, 19).
- If this feature is not turned on, caller names will not be announced (see below and page 29).
- If an outside call is received while on an intercom call between the handset and base unit, other handsets will ring, but the caller’s name will not be announced.
- If you have Call Waiting service, the second caller’s information will be displayed but not announced (For Call Waiting Service Users, p. 55).
- Name pronunciation may vary. Name pronunciation quality is based on names most commonly used in the United States.
- The unit will announce each letter of abbreviations, such as “Co.” and “Inc.”.
- Caller ID supports names of up to 15 letters. If the caller’s name has more than 15 letters, the name will not be displayed or announced correctly.
- If you subscribe to a Distinctive Ring Service (such as IDENT-A-RING) from your telephone company with 2 or 3 consecutive rings, your unit may mute one or more of the rings in order to announce the name of the caller.

To turn on or off Talking Caller ID feature

You can turn on or off Talking Caller ID feature for the handset and base unit separately. If this feature is turned off, the unit will not announce caller names. The factory preset is ON.

Handset Talking Caller ID feature **Handset**

1 Press **[MENU]**.

2 Scroll to “Talk Caller ID” by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Talk Caller ID

3 Select “On” or “Off” by pressing **[▼]** or **[▲]**.

Talk Caller ID
:On

4 Press the soft key **(SAVE)**, then press **[OFF]**.

Base unit Talking Caller ID feature **Handset**

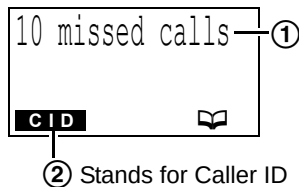
This feature must be turned on or off for the base unit by using the handset.

1 Press [MENU] .	
2 Scroll to "Initial setting" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Initial setting
3 Scroll to "Set base unit" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Set base unit
4 Scroll to "Talk Caller ID" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Talk Caller ID
5 Select "Off" or "On" by pressing [▼] or [▲] .	Talk Caller ID :On
6 Press the soft key (SAVE) , then press [OFF] .	

Using the Caller List

The unit can record information up to 50 different callers and store this information in the Caller List. Caller information is sorted by the most recent call to the oldest. When the 51st call is received, the information from the 1st call is deleted.

The unit will also tell you how many calls you missed while you were out or unavailable to answer the phone.



- ① The handset display will show the number of calls you missed.
- ② Press the soft key **(CID)**, **[▼]**, or **[▲]** to review other calls logged in the Caller List.
 - If there are no items in the Caller List, "**CID**" will not be displayed.
 - After viewing the missed call entries, "missed calls" will disappear from the display.

Using the Caller List

Viewing the Caller List **Handset**

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.

Ex. 10 calls missed.

Caller list
10 missed calls
▼▲=Scroll list

- 2 To search from the most recent call, press [**▼**].
To search from the oldest call, press [**▲**].
- The caller's name, number and the time and date of the call are displayed.

Example

SMITH, JACK
1-555-333-4444
3:10P JUN.10

- 3 Press [**OFF**] to exit the list.

- If there is no name information for a caller, the display will only show the phone number.
- Each handset has its own Caller List. If you viewed the Caller List or answered a call on one handset, the same information in the other handsets will be displayed as "missed".
- If you do not press any buttons for 60 seconds, the unit will exit the Caller List.

What "√" means

"√" indicates you have already viewed this calling information or answered the call. If the same caller calls again, the call entry with the "√" will be replaced with the new call entry.

SMITH, JACK
1-555-333-4444
3:10P JUN.10 √

If a caller calls more than once

The number of times the same caller called is displayed ("×2" to "×9"). The date and time of the most recent call will be recorded. After viewing a caller's information, "×2" to "×9" will be replaced with "√".

Ex. Called 3 times.

TURNER, CINDY
1-555-456-7890
11:20A JAN.12 ×3

Calling Back from the Caller List **Handset**

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
- 2 Scroll to the desired caller by pressing [**▼**] or [**▲**].
- 3 Press [**☎**] or [**☎**].
- The phone number is dialed.

- In some cases, you may have to edit the number before dialing (p. 31).
(Ex. You may have to delete "1" and the area code.)
- If a phone number is not displayed in the caller information, you cannot call that caller back from the Caller List.

Editing the Caller's Phone Number **Handset**

You can edit a phone number in the Caller List by removing its area code and/or the long distance code "1".

Once you call back an edited number, this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call (**Caller ID Number Auto Edit**, p. 32).

1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.

2 Scroll to the desired caller by pressing [**▼**] or [**▲**].

PARKER, FRED
1-555-321-5555

3 Press the soft key (**EDIT**) repeatedly until the number is shown in the desired format.

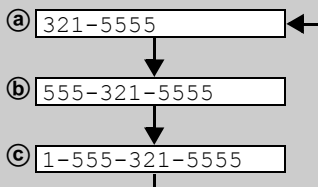
- Each time you press the soft key (**EDIT**), the number is rearranged into one of 3 patterns.

Ⓐ Phone no.

Ⓑ Area code – Phone no.

Ⓒ 1– Area code – Phone no.

- The order in which patterns Ⓐ–Ⓒ are displayed depends on how the telephone number is displayed in step 2.



4 To call the edited number, press [**↶**] or [**↷**].

- If Caller ID Number Auto Edit feature is turned on (factory preset is on), phone numbers with the same area code as the number you edited will now be edited in the Caller List and each time you receive a call.
- You can press [**OFF**] immediately after pressing [**↶**] or [**↷**] if you wish to activate the Auto Edit feature without actually dialing the number you just edited.

To save the edited number into the phone book, press the soft key (**SAVE**).

- If there is no name information, see "Storing Caller Information in the Phone Book" on page 33, from step 3.
- Even if the Auto Edit feature is turned on, this feature will not be activated by saving the edited number in the phone book.

Using the Caller List

Caller ID Number Auto Edit **Handset**

Once you call back an edited number (p. 31), this unit can automatically edit incoming phone numbers from the same area code in the Caller List and each time you receive a call. For example, it can ignore the area code of calls originating from your area code, so that you can call these numbers from the Caller List without dialing the area code.

To activate this feature, you must edit a caller's phone number in the Caller List (p. 31) by selecting pattern **(a)**, **(b)**, or **(c)**, then make a call to that number. Calls from numbers in that area code will be edited automatically. The unit can remember up to 4 area codes to be edited according to patterns **(a)** and **(b)**.

When more than 5 area codes are edited, older area codes are reset to pattern **(c)**. Phone numbers from the 4 most recently edited area codes will be automatically edited.

You can turn this feature on or off using the handset. The factory preset is ON.

To turn on or off Caller ID Number Auto Edit feature

1 Press [MENU] .	
2 Scroll to "Initial setting" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Initial setting
3 Scroll to "Caller ID edit" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Caller ID edit
4 Select "Off" or "On" by pressing [▼] or [▲] .	Auto edit :On
5 Press the soft key (SAVE) , then press [OFF] .	

- If you fail to reach your destination when making a call, the phone number you dialed might have an incorrect pattern. Edit the phone number with another pattern (p. 31).
- When this feature is turned off, the unit will still be able to display Caller ID, but incoming Caller ID numbers will not be automatically edited.
- If you move to another area you may need to turn this feature off to erase the previously edited area codes. To use this feature again, turn it on and reprogram the area codes you want to be edited once again.

Storing Caller Information in the Phone Book **Handset**

Caller names and phone numbers that are in the Caller List can be stored in the phone book.

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
 - 2 Scroll to the desired caller by pressing [**▼**] or [**▲**].
 - If the number requires editing, see page 31.
 - 3 Press the soft key (**SAVE**).
 - If there is no name information for the caller, "Enter name" will be displayed.
 - You can enter a name by performing the following steps:
 - (1) enter the name (p. 35),
 - (2) press [**▼**], and
 - (3) press the soft key (**SAVE**).
 - If a name is not required, press [**▼**], then press the soft key (**SAVE**).
 - To continue storing other items, repeat from step 2.
 - To exit programming mode, press [**OFF**].
- You cannot store Caller List items in the phone book if a phone number is not displayed.

Erasing Caller Information **Handset**

To erase a specific caller

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
- 2 Scroll to the desired caller by pressing [**▼**] or [**▲**].
- 3 Press the soft key (**ERASE**).
 - "Erased" is displayed.
 - To erase other items, repeat from step 2.
 - To exit the Caller List, press [**OFF**].

To erase all entries

- 1 Press the soft key (**CID**), [**▼**], or [**▲**] to enter the Caller List.
 - Before erasing all entries, make sure that "0 missed call" is displayed.
- 2 Press the soft key (**ERASE**).
 - "All erase?" is displayed.
 - To cancel erasing, press the soft key (**NO**).
- 3 Press the soft key (**YES**).
 - "All erased" is displayed and all entries in your Caller List are erased.

Phone Book

The handset can store up to 50 names and phone numbers in its phone book. You can make a call by selecting a name or number from the phone book, and copy phone book items from one handset to another (p. 39, 40).

Storing Names and Numbers **Handset**

1 Press the soft key (📖).

- The display will show the number of stored items.

Phone book
10 items
0-9=Name search
▼▲=Scroll list

2 Press the soft key (**ADD**).

3 Enter a name of up to 16 characters with the dialing buttons ([0] to [9]) (p. 35), then press [▼].

- To move the cursor, press the soft key (◀) or (▶).
- If a name is not required, press [▼] then go to step 4.

Enter name
Tom
▼=Next

4 Enter a phone number of up to 32 digits.

- To delete a digit, press the soft key (**CLEAR**). To erase all of the digits, press and hold the soft key (**CLEAR**).

Enter phone no.
5557654321
▼=Next

5 Press [▼].

- If you want to change the name, press the soft key (**EDIT**). The display returns to step 3. Change the name.
- If you want to change the number, press [▲]. The display returns to step 4. Change the number.

Tom
555-765-4321

6 Press the soft key (**SAVE**).

- To continue storing other items, repeat from step 2.

7 Press **[OFF]**.

- If a pause is required when dialing, press the soft key (**PAUSE**) in step 4. A pause is stored in a phone number as one digit (p. 55).
- To store numbers for calling card access (see "Chain Dial" on page 37), we recommend you add pauses after each item. Storing pauses with numbers will prevent misdialing (p. 55). The delay time necessary will depend on your telephone company.

Selecting characters to enter names

Enter names using the dialing buttons. Press each button until the desired character is displayed.

- Pressing each button selects a character in the order shown below.

Keys	Characters	Keys	Characters
[1]	# & ' () * , - . / 1	[6]	m n o M N O 6
[2]	a b c A B C 2	[7]	p q r s P Q R S 7
[3]	d e f D E F 3	[8]	t u v T U V 8
[4]	g h i G H I 4	[9]	w x y z W X Y Z 9
[5]	j k l J K L 5	[0]	0 Space
	Moves the cursor to the left.		
	Moves the cursor to the right. (To enter another character using the same number key, move the cursor to the next space.)		

For example, to enter “Tom”:

- Press [8] four times.
- Press [6] three times, then press the soft key () to move the cursor.
- Press [6] once.

T

To

Tom

If you make a mistake while entering a name or number

- Press the soft key () or () to move the cursor to the incorrect character.
- Press the soft key () to delete the character.
 - Each time you press the soft key (), a character is erased.
 - To erase all characters, press and hold the soft key ().
- Enter the correct character.

Phone Book

Dialing from the Phone Book **Handset**

- 1** Press the soft key (.
- The display shows the number of stored items.
 - You can press the soft key (**SEARCH**) to view the first item.

Phone book
10 items
0-9=Name search
▼▲=Scroll list

- 2** Scroll to the desired item. To scroll down, press [▼]. To scroll up, press [▲].

Phone book items are sorted in the following order:	
1	Alphabet letters (Alphabetical)
2	Space & ' () , - . /
3	Numbers 0 to 9
4	# *
5	Telephone numbers (If no name is stored)

Frank
555-456-7890

- 3** Press [, , or the soft key (**CALL**).
- The phone number is dialed.

- If “No items stored” is displayed in step 1, the phone book is empty.
- To exit the phone book, press **[OFF]**.

To search for a name by initial

1. Press the soft key (.
2. Press the dialing button for the first letter of the desired name until any name with the same initial is displayed (see the Index table below).
Ex. To find “Frank”, press **[3]** repeatedly until the first item under “F” is displayed.
 - If there are no items beginning with the character you selected, the first item in the next alphabetical index will be displayed.
3. Press [▼] repeatedly until the desired name is displayed.

Index table

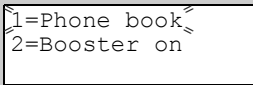
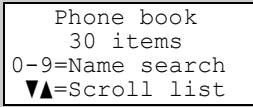
Keys	Index	Keys	Index
[1]	Symbols, 1	[6]	M, N, O, 6
[2]	A, B, C, 2	[7]	P, Q, R, S, 7
[3]	D, E, F, 3	[8]	T, U, V, 8
[4]	G, H, I, 4	[9]	W, X, Y, Z, 9
[5]	J, K, L, 5	[0]	0, Space

Chain Dial **Handset**

You can dial a combination of phone book or manual key pad entries while making a call. This feature can be used, for example, to first automatically dial a calling card access number that you have stored in the phone book, then manually or automatically dial your PIN and then automatically dial the destination from the phone book.

Ex. Using a long distance calling card

- To prevent misdialing, we recommend you add pauses where needed when storing numbers. For example, add pauses after a calling card access number and your PIN when storing in the phone book (p. 34).
1. Search and dial from the phone book: 1-800-012-3456 (Calling card access number)
 - The voice guidance will be announced.
 2. Search and dial from the phone book: 1234 (Calling card PIN)
 3. Search and dial from the phone book: 1-555-012-3456 (Destination Number)

1 While you are on a call; Press [MENU] .	
2 Press the soft key (SELECT) at “1=Phone book”, or press [1] .	
3 Search for the desired item by pressing [▼] or [▲]. • To search for an item by initial, see page 36.	
4 Press the soft key (CALL). • The phone number is dialed. • If required, repeat steps 1 to 4 for any remaining numbers.	

- If you have rotary or pulse service, you need to press **[*]** before pressing **[MENU]** in step 1 to change the dialing mode temporarily to tone.

Phone Book

Editing an Item in the Phone Book **Handset**

1 Press the soft key (📖).	
2 Scroll to the desired item by pressing [▼] or [▲]. • To search for the item by initial, see page 36.	Jane 456-7890
3 Press the soft key (EDIT).	Enter name Jane ▼=Next
4 Edit the name (p. 35), then press [▼]. • If you do not need to change the name, press [▼] then go to step 5. • To move the cursor, press the soft key (◀) or (▶).	Enter name Jane Walker ▼=Next
5 Edit the phone number, then press [▼]. • If you do not need to change the number, press [▼] then go to step 6. • To delete a digit, press the soft key (CLEAR). To delete all of the digits, press and hold the soft key (CLEAR).	Enter phone no. 5554567890 ▼=Next
6 Press the soft key (SAVE). • To continue editing other items, repeat from step 2.	
7 Press [OFF] .	

Erasing an Item in the Phone Book **Handset**

1 Press the soft key (📖).	
2 Scroll to the desired item by pressing [▼] or [▲]. • To search for the item by initial, see page 36.	
3 Press the soft key (ERASE). • To cancel erasing, press the soft key (NO).	Erase?
4 Press the soft key (YES). • To erase other items, repeat from step 2.	Erased
5 Press [OFF] .	

Copying Items in the Phone Book **Handset** (When the System Has Two or More Handsets)

You can copy one or all phone book items between two handsets. The destination handset will save the items in its phone book.

- If an outside call is received during the phone book copy, copying will stop. You will need to re-send the item(s) later.
- After the copy has started, do not place your handset on the base unit (or the charger, for accessory handset users, p. 3) until copying finishes, otherwise copying will stop.

To copy one phone book item to another handset

Make sure the destination handset is not in use.

1 Press [MENU] .	
2 Scroll to "Copy phone book" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Copy phone book
3 Press the soft key (SELECT) at "Copy 1 item".	Copy 1 item
4 Select the destination extension number (1 to 4) by pressing [▼] or [▲] . • You can also select the extension number by pressing [1] to [4] .	Enter extension# :2 ▼▲
5 Press the soft key (NEXT) .	Select item
6 Scroll to the desired phone book item by pressing [▼] or [▲] . • To search for the item by initial, see page 36.	
7 Press the soft key (SEND) . • To continue copying other items, repeat from step 6.	Complete
8 Press [OFF] .	

Phone Book

To copy all of the items in your phone book to another handset

Make sure the destination handset is not in use.

1 Press [MENU] .	
2 Scroll to "Copy phone book" by pressing [▼] or [▲] , then press the soft key (SELECT).	Copy phone book
3 Scroll to "Copy all items" by pressing [▼] or [▲] , then press the soft key (SELECT).	Copy all items
4 Select the destination extension number (1 to 4) by pressing [▼] or [▲] . You can also select the extension number by pressing [1] to [4].	Enter extension# :2 ▼▲
5 Press the soft key (SEND). - When all items have been copied, "Complete" is displayed. - The destination handset displays "Phone book Receiving" then "Phone book Received". - To continue copying items to another extension, repeat from step 3.	Ex. Copying 1st item out of 10 items Tom Jones 555-765-4321 01/10
6 Press [OFF] .	

- You can exit phone book copying mode by pressing **[OFF]**.

Speed Dialer

Storing Phone Numbers **Base Unit**

You can store up to 10 phone numbers in the base unit. The dialing buttons ([0] to [9]) function as memory stations.

Make sure the base unit is not being used.

1 Press **[PROGRAM]**.

- The IN USE indicator flashes.

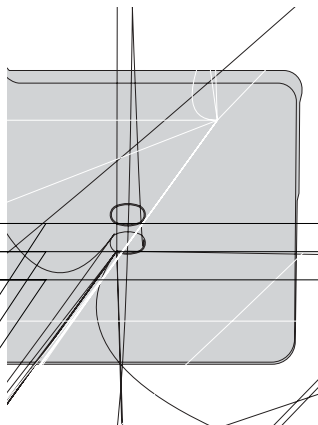
2 Enter a phone number of up to 32 digits.

- If you misdial, press **[PROGRAM]**, and start again from step 1.

3 Press **[AUTO]**.

4 Press a memory station number ([0] to [9]).

- A long beep sounds and the phone number is saved.
- To store other numbers, repeat from step 1.



- If a pause is required when dialing, press **[REDIAL/PAUSE]** where needed. A pause counts as one digit (p. 55).
- If a phone number is stored in a memory location which already contains a phone number, the old number will be erased.
- We recommend you make a note of which phone numbers are stored in which memory locations.

To erase a stored number

1. Press **[PROGRAM]**, then press **[AUTO]**.

2. Press the memory station number ([0] to [9]) for the phone number to be erased.

- A long beep sounds and the phone number is erased.

Dialing a Stored Phone Number

1 Press **[SP-PHONE]**.

2 Press **[AUTO]**.

3 Press a memory station number ([0] to [9]).

- To stored number is dialed.

- Speed dial numbers stored in the base unit can only be dialed from the base unit.

Intercom

Intercom calls can be made between a handset and the base unit, and between two handsets (when the system has two or more handsets, p. 3). You can page all handsets at once from the base unit, and announce the page to all handsets (**Voice Paging**, p. 44).

Page the desired unit(s) by entering the extension number, shown in the top right of each handset's display. The base unit's extension number is 0.

Making Intercom Calls

From **Handset**

1 Press [HOLD/INTERCOM] .	Press extension# to call 1-4=Handset 0=Base
2 To page the base unit, press [0] . To page another handset, press its extension number ([1] to [4]). • The paged unit will ring for 1 minute. • To stop paging, press [OFF].	Ex. Calling Base unit Calling Base Ex. Calling Handset 2 Calling HS[2]
3 When the paged party answers, start talking. • You can switch to the speaker by pressing [⇐]. To switch back to the receiver, press [⇒].	Ex. Intercom between Handset 1 & Base unit Intercom 00-00-05 ■01
4 To disconnect the intercom, press [OFF] .	

From **Base Unit**

Using this feature, you can also locate a misplaced handset.

1 Press [LOCATOR/INTERCOM/TRANSFER] . • The LOCATOR/INTERCOM/TRANSFER and SP-PHONE indicators light.	
2 To page all handsets, press [0] . To page a specified handset, press its extension number [1] (/) to [4] (/). • The handset(s) will ring for 1 minute. • To stop paging, press [SP-PHONE] or [LOCATOR/INTERCOM/TRANSFER].	
3 When the paged party answers, talk into the MIC .	
4 To disconnect the intercom, press [SP-PHONE] or [LOCATOR/INTERCOM/TRANSFER] . • The indicator lights go out.	

During an intercom call:

- If you have difficulty hearing while using the speakerphone on the handset or base unit, decrease the speaker volume by pressing [▼].
- If an incoming call is being received, you will hear two tones (incoming call tone, p. 57) and the IN USE indicator on the base unit will flash rapidly.
To answer the call;
 - if using the handset, press [OFF], then press [↶] or [↷].
 - if using the base unit, press [SP-PHONE] twice.

Answering Intercom Calls

Handset

When a handset is paged, it rings and the Ringer/Message Alert indicator flashes rapidly. The display shows the calling extension.

1 Press [↶], [↷] or [HOLD/INTERCOM].

- You can also answer a page by pressing any button except [▼], [▲] or [OFF].

Ex. Base calling

Call from Base

Ex. Handset 2 calling

Call from HS[2]

2 To disconnect the intercom, press [OFF].

- If the Auto Talk feature is turned on (p. 17), you can also answer a page by simply lifting the handset off the base unit (or the charger, for accessory handset users, p. 3).

Base Unit

When the base unit is being paged, it rings and the LOCATOR/INTERCOM/TRANSFER indicator flashes.

1 Press [SP-PHONE] or [LOCATOR/INTERCOM/TRANSFER].**2 To disconnect the intercom, press [SP-PHONE] or [LOCATOR/INTERCOM/TRANSFER].**

- When the ringer volume is turned off (p. 18, 19), the handset and the base unit will ring at the low level for intercom calls.
- You cannot change the ringer tone for intercom calls.
- When the base unit user pages all handsets, only the handset user who answers first can talk with the base unit user.

Intercom

Voice Paging **Base Unit**

The base unit user can make a voice announcement that is heard through the speakers of all handsets.

- When 4 handsets are registered to the base unit, and if one handset user is on conversation using the Booster feature, 1 of the remaining 3 handsets will not receive the voice announcement.

1 Press **[LOCATOR/INTERCOM/TRANSFER]**.

- The LOCATOR/INTERCOM/TRANSFER and SP-PHONE indicators light.

2 To make a voice announcement to all handsets, press **[5]** ()

- You will hear a ringback tone (two short beeps) and the SP-PHONE indicator flashes.

3 When the SP-PHONE indicator stops flashing, speak into the **MIC**.

- All handset users will hear your voice through their speakers after beeps, “Call from Base” will be displayed and the Ringer/Message Alert indicator will flash rapidly on the handsets.
- The handset on the base unit will not be paged.

4 When finished, press **[SP-PHONE]** or **[LOCATOR/INTERCOM/TRANSFER]**.

OR

After one of the handsets answers, talk into the **MIC**.

To disconnect the intercom, press **[SP-PHONE]** or **[LOCATOR/INTERCOM/TRANSFER]**.

-
- Only the handset user who answers first can talk with the base unit user.
 - To answer the page from the handsets, see “Answering Intercom Calls” on page 43.
 - If a handset is too close to the base unit, you may hear feedback while making the voice announcement. Place the handset on the base unit (or the charger, for accessory handset users, p. 3) or press **[OFF]**.
 - It is not possible to specify which handset(s) will hear the voice announcement.
 - The announcement is heard at the handset ringer volume (p. 18).

Transferring a Call

You can transfer an outside call to the base unit or a handset.

From the **Handset** to the **Base Unit**

1 *Handset:*

- (1) During a call, press **[HOLD/INTERCOM]**.
 - The call is put on hold.
- (2) To page the base unit, press **[0]**.
- (3) Wait for the paged party to answer, then you can announce the transfer.
 - If the paged party does not answer, press **[↶]** or **[↷]** to return to the outside call.

Press extension#
to transfer
1-4=Handset
0=Base

2 *Base unit:* Press **[SP-PHONE]** or **[LOCATOR/INTERCOM/TRANSFER]** to answer the page.

3 *Handset:* To complete the transfer, press **[OFF]**.

From the **Base Unit** to the **Handset**

1 *Base unit:*

- (1) During a call, press **[LOCATOR/INTERCOM/TRANSFER]**.
 - The call is put on hold.
- (2) To page a specified handset, press its extension number **[1]** (**↗**) to **[4]** (**↘**).
To page all handsets, press **[0]**.
Wait for the handset user to answer, then you can announce the transfer.
OR
To make a voice announcement to all handsets, press **[5]** (**↗**), then speak into the **MIC** when the SP-PHONE indicator stops flashing.
 - If the paged party does not answer, press **[LOCATOR/INTERCOM/TRANSFER]** to return to the outside call.

2 *Handset:* Press **[↶]**, **[↷]**, or **[HOLD/INTERCOM]** to answer the page.

- You can also answer a page by pressing any button except **[▼]**, **[▲]** or **[OFF]**.

3 *Base unit:* To complete the transfer, press **[SP-PHONE]**.

- When the base unit user calls all handsets, only the handset user who answers first can take the transferred call.

Transferring a Call

From a **Handset** to another **Handset**

(when the system has two or more handsets)

-
- 1 During a call, press **[HOLD/INTERCOM]**, then page another handset by pressing its extension number (**[1]** to **[4]**).
 - 2 Wait for the paged party to answer, then you can announce the transfer.
 - The paged handset user can answer by pressing **[↶]**, **[↷]**, or **[HOLD/INTERCOM]**. (Any button except **[▼]**, **[▲]** or **[OFF]** can be pressed to answer the page.)
 - If the paged party does not answer, press **[↶]** or **[↷]** to return to the outside call.
 - 3 To complete the transfer, press **[OFF]**.
-

- If the Auto Talk feature is turned on (p. 17), the paged handset user can also answer a page by simply lifting the handset off the base unit (or the charger, for accessory handset users, p. 3).
- Any user can answer a transferred call by pressing **[↶]**, **[↷]**, or **[SP-PHONE]**.
- If you call an extension from the handset in step 1, and the extension is in use, the display will show "Busy" then "Hold". Press **[↶]** or **[↷]** to return to the outside call. To transfer the call to another extension, repeat from step 1.

Quick call transfer

You can transfer a call without waiting for the paged party to answer.

Handset

1. During a call, press **[HOLD/INTERCOM]**.
2. Press the extension number (**[0]** for the base unit, **[1]** to **[4]** for the handset).
3. Press **[OFF]** to hang up.

Base Unit

1. During a call, press **[LOCATOR/INTERCOM/TRANSFER]**.
2. Press the extension number **[1]** (↗) to **[4]** (↗), or press **[0]** to page all handsets.
3. Press **[SP-PHONE]** to hang up.
 - The call will be transferred directly.
 - The paged party can answer the transferred call by pressing **[↶]**, **[↷]**, or **[SP-PHONE]**.
 - After the paged party answers, the transfer is complete.
 - If the paged party does not answer:
 - for the handset, press **[↶]** or **[↷]** to return to the outside call.
 - for the base unit, press **[SP-PHONE]** to return to the outside call.
 - If the paged party does not answer within 60 seconds after you hang up, your phone will ring and the call will be returned to your phone. You may speak to the caller again by pressing **[↶]**, **[↷]**, or **[SP-PHONE]**.
If you do not answer the call within 4 minutes, the call will be disconnected.

Conference Calls

While you are talking with an outside caller, the base unit user or a handset user can join the conversation and establish a conference call.

- To leave the conference, press **[OFF]** on the handset or press **[SP-PHONE]** on the base unit. The two other parties can continue the conversation.
- During a conference call, press **[END CALL]** on the handset or **[END CALL]** on the base unit to end the conference call.

Room Monitor

This feature allows you to monitor a room by using the intercom feature. For example, you can monitor a baby from different areas of the house. You can call the destination unit to monitor the room. The called unit will not ring. When the system has two or more handsets (p. 3), you can monitor one handset using another. To allow other users to monitor through your unit, turn this feature on. If you want to prevent your unit from being monitored by other extensions, leave this feature off. Using the handset, this feature can be turned on or off separately for the handset and base unit. The factory preset is OFF.

To turn Room Monitor on for the handset (to allow other users to monitor through your handset)

- 1 Press **[MENU]**.
- 2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key ().
- 3 Scroll to "Room monitor" by pressing **[▼]** or **[▲]**, then press the soft key ().
- 4 Select "On" by pressing **[▼]** or **[▲]**.

- To prevent your handset from being monitored, select "Off" in step 4.

To turn Room Monitor on for the base unit (to allow other users to monitor through your base unit)

- To prevent your base unit from being monitored, select "Off" in step 4.

Room Monitor

To monitor with **Handset**

The unit to be monitored must not be in use and the handset to be monitored must be off the base unit.

1 Press **[HOLD/INTERCOM]**, then press the soft key **(MONITOR)**.

2 To call the base unit, press **[0]**.
To call another handset, press its extension number (**[1]** to **[4]**).

- To monitor from the speaker, press **[🔊]**. If the handset is placed on the base unit, monitoring will be stopped. Accessory handset users (p. 3) can place the handset on the charger and continue monitoring. To switch back to the receiver, press **[🔇]**.

Press extension#
for room monitor
1-4=Handset
0=Base

Room monitor
00-00-05
■01

3 To end monitoring, press **[OFF]**.

- The monitored user can stop being monitored by:
 - on the handset, press **[OFF]** or place the handset on the base unit.
 - on the base unit, press **[LOCATOR/INTERCOM/TRANSFER]** or **[SP-PHONE]**.
- “Room monitor” is also displayed on the monitored handset.
- While the base unit is monitoring or being monitored, the LOCATOR/INTERCOM/TRANSFER indicator flashes and the SP-PHONE indicator lights.

To monitor with **Base Unit**

The handset to be monitored must not be in use and off the base unit.

1 Press **[LOCATOR/INTERCOM/TRANSFER]**, then press **[MUTE]**.

- The LOCATOR/INTERCOM/TRANSFER indicator flashes.

2 To call the handset, press its extension number **[1]** (**/**) to **[4]** (**/**).

3 To end monitoring, press **[LOCATOR/INTERCOM/TRANSFER]** or **[SP-PHONE]**.

- The indicator light goes out.

- If the Room Monitor feature of the destination handset is off or the handset is on the base unit, busy tones will sound.

Voice Mail Service

Voice mail is an automatic answering service offered by your telephone company. If you subscribe to this service, your telephone company's voice mail system can answer calls for you when you are unavailable to answer the phone or when your line is busy. Callers can leave messages that are saved in virtual voice mailboxes, which are maintained for you at the phone company, allowing you to listen to your messages whenever you like.

The unit will let you know that someone has left voice mail for you (p. 53). Once you have stored your voice mail access number, you can access your voice mailbox simply by pressing the soft key (**VM**), then pressing [**↶**] or [**↷**] on the handset, or by pressing **[VM]** on the base unit.

Storing a Voice Mail Access Number **Handset**

1 Press [MENU] .	
2 Scroll to "Initial setting" by pressing [▼] or [▲], then press the soft key (SELECT).	Initial setting
3 Press the soft key (SELECT) at "Voice Mail".	Voice Mail
4 Press the soft key (SELECT) at "Store VM access#".	Store VM access#
5 Enter your access number, up to 32 digits. • If a pause is required for dialing, press the soft key (PAUSE)*. • Each time you press the soft key (CLEAR), a digit is erased. To erase all of the digits, press and hold the soft key (CLEAR).	Example Store VM access# 1234567PPP890
6 Press the soft key (SAVE), then press [OFF] . • "VM" is displayed.	

*To prevent misdialing, you may add pauses between your voice mail access number and your mailbox password in step 5.

Ex. 1-222-333-4444 PPPP 8888

Your voice mail access number Pauses Your mailbox password

Pressing the soft key (**PAUSE**) once creates a 3.5 second delay and counts as one digit. The delay time necessary for entering your access number and entering your mailbox password will depend on your telephone company.

Voice Mail Service

To erase a stored voice mail access number

Repeat steps 1 to 4 on page 51, then press and hold the soft key **(CLEAR)** until all of the digits are erased. Press the soft key **(SAVE)**, then press **[OFF]**.

Setting Voice Mail (VM) Tone Detection

Your telephone company sends special signals (Voice mail tones) to the unit. Press **[hook]**, **[phone]** or **[SP-PHONE]** to listen to the dial tone. If you hear a series of dial tones followed by a continuous dial tone, this indicates that a new message was recorded. Voice Mail detection is preset at the factory to ON. Minutes after you hang up or after the phone stops ringing, your unit will seize the phone line and check if a message has been recorded. If a new message was recorded at your telephone company, "Voice Mail" will be displayed on the handset, the Ringer/Message Alert indicator on the handset will flash slowly if Message Alert is turned on (p. 21), and the VM indicator will flash on the base unit.

Turn off this programming when:

- you do not subscribe to a voice mail service,
- your telephone company does not send a series of tones, followed by a continuous tone to indicate you have new voice mail, or
- your phone is connected to a business or office telephone system (PBX).

See below to turn this setting off.

If you are not sure which setting is required, consult your local telephone company or contact the Panasonic Customer Call Center.

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key ().

3 Press the soft key () at "Voice Mail".

4 Scroll to "VM tone detect" by pressing **[▼]** or **[▲]**, then press the soft key ().

5 Select "Off" or "On" by pressing **[▼]** or **[▲]**.

6 Press the soft key (), then press **[OFF]**.

Listening to Voice Mail Messages **Handset** **Base Unit**

The unit will let you know that someone has left new voice mail for you:

- (a) the VM indicator will flash on the base unit,
- (b) "Voice Mail" will be displayed on the handset,
- (c) "VM" will flash on the handset, and
- (d) the Ringer/Message Alert indicator on the handset will flash slowly if Message Alert is turned on (p. 21) and the handset is not in use.

To listen to your voice mail message(s) **Handset**

- 1 Press the soft key (**VM**), then press [**↶**] or [**↷**].

- "Dial VM access#" is displayed and the number is dialed (p. 51).
- If the handset beeps 3 times and "Store VM access#" is displayed, a voice mail access number is not stored. To store the number, see page 51.



- 2 Follow the pre-recorded instructions.

- 3 When finished, press [**OFF**].

- After listening to your message(s), "**VM**" stops flashing but remains on the handset display

Base Unit

- 1 Press [**VM**].

- The unit is connected to the telephone line and dials the access number (p. 51) in speakerphone mode.
- If the base unit beeps 3 times, a voice mail access number is not stored. To store the number, see page 51.

- 2 Follow the pre-recorded instructions.

- 3 When finished, press [**SP-PHONE**].

Voice Mail Service

- If the handset and base unit still indicate you have new messages even after you have listened to them, turn the voice mail indicators off by pressing and holding **[OFF]** until the handset beeps. “Voice Mail” will disappear and “**VM**” stops flashing but remains on the handset, and the Ringer/Message Alert indicator on the handset and the VM indicator on the base unit will go out.
- If your voice mail service uses a voice mail tone and the recorded message is over 3 minutes long, the handset and base unit may not indicate you have new messages.
- If your voice mail service uses a voice mail tone, the tone will be heard from any parallel connected phone. If you use another phone to retrieve messages, you have to dial your access number manually.

Special Features

Muting Your Conversation

During a call, you can mute your phone so the other party cannot listen to you. When muting your conversation, you can hear the other party.

Handset Press the soft key (**MUTE**).

- “Mute” will be displayed for a few seconds and “**MUTE**” will flash.
- **To release the mute**, press the soft key (**MUTE**) again.
- If you press **[↶]** or **[↷]** to switch between the receiver and speaker, the mute will be released.

Base Unit Press **[MUTE]**.

- The SP-PHONE indicator flashes.
- **To release the mute**, press **[MUTE]** again.

Call Privacy **Handset**

Call Privacy allows you to prevent other users from joining your conversation with an outside caller. To allow other users to join your conversation, leave this feature off. This feature is only available for the handset.

To turn on the Call Privacy feature:

Press the soft key (**PRIVACY**) during a conversation.

- “PRIVACY” will be displayed.
- To turn this feature off, press the soft key (**PRIVACY**) again during a conversation.
- While the Call Privacy feature is turned on, other users cannot join the conversation.
- Call Privacy will turn off after you hang up the call.

Using the PAUSE Button (For PBX Line/Long Distance Calls)

Handset Base Unit

We recommend you press the soft key **[PAUSE]** on the handset or press **[REDIAL/PAUSE]** on the base unit if a pause is required for dialing with a PBX or to make a long distance call.

- **[PAUSE]** is displayed on the handset only when dialing before pressing **[↶]** or **[↷]** (p. 23), or storing numbers in the phone book (p. 34).

Ex. Line access number **[9]** (PBX)

[9] ➡ Soft key **[PAUSE]** or **[REDIAL/PAUSE]** ➡ Phone number

- Pressing the soft key **[PAUSE]** on the handset or **[REDIAL/PAUSE]** on the base unit once creates a 3.5 second pause. This prevents misdialing when you dial after confirming the entered number (p. 23) or dial a stored number (p. 36, 37, 41).
- Pressing the soft key **[PAUSE]** on the handset or **[REDIAL/PAUSE]** on the base unit more than once increases the length of the pause between numbers.

For Call Waiting Service Users **Handset Base Unit**

Press **[FLASH/CALL WAIT]** if you hear a call waiting tone during a conversation.

- The first call is put on hold and you can answer the second call.
- To return to the first caller, press **[FLASH/CALL WAIT]** again.
- Call Waiting service cannot be used when the first call is put on hold.
- If this function does not operate properly, consult your telephone company for details.

Call Waiting Caller ID display **Handset**

If you subscribe to both Caller ID and Call Waiting with Caller ID services (CWID), when a second call is received while talking, the second caller's information will be displayed. After you hear a call waiting tone while talking, the display shows the caller's name with the phone number and "Waiting".

BROWN, NANCY
1-555-666-7777
----Waiting----

- Contact your telephone company for details about availability in your area, and to verify that CWID service is activated on your telephone line.
- The caller's information will only be shown on the display of the handset which is on the outside call.
- The second caller's name will not be announced even if the Talking Caller ID feature is on (p. 28).

Incoming Call Tone **Handset** **Base Unit**

During an intercom call (p. 42) or while using the Room Monitor feature, you can be informed of incoming calls by two tones.

If this feature is turned on, incoming call tones will be heard for as long as the line is ringing. If this feature is set to "2", incoming call tones will be heard only 2 times. If this feature is turned off, no tones will be heard. This factory preset is "2".

Using the handset, this feature can be set separately for the handset and base unit.

Handset incoming call tone **Handset**

1 Press **[MENU]**.

2 Press the soft key (**SELECT**) at "Ringer setting".

Ringer setting

3 Scroll to "Incoming call." by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

Incoming call.

4 Select "On", "Off" or "2" by pressing **[▼]** or **[▲]**.

Incoming call
tone :2

5 Press the soft key (**SAVE**), then press **[OFF]**.

Base unit incoming call tone **Handset**

1 Press **[MENU]**.

2 Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

Initial setting

3 Scroll to "Set base unit" by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

Set base unit

4 Scroll to "Incoming call." by pressing **[▼]** or **[▲]**, then press the soft key (**SELECT**).

Incoming call.

5 Select "On", "Off" or "2" by pressing **[▼]** or **[▲]**.

Incoming call
tone :2

6 Press the soft key (**SAVE**), then press **[OFF]**.

Special Features

Key Tone **Handset**

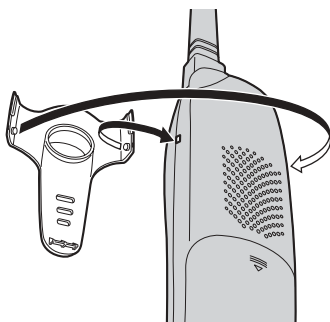
You can select whether or not the handset keys will sound tones (key tone, confirmation tone, error tone). The factory preset is ON.

1 Press [MENU] .	
2 Scroll to "Initial setting" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Initial setting
3 Scroll to "Key tone" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Key tone
4 Select "Off" or "On" by pressing [▼] or [▲] .	Key tone :On
5 Press the soft key (SAVE) , then press [OFF] .	

Belt Clip

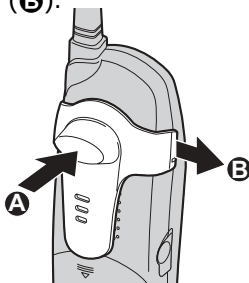
You can hang the handset on your belt or pocket using the included belt clip.

To attach the belt clip



To remove the belt clip

While pressing the top of the clip (A), pull the right edge in the direction of the arrow (B).

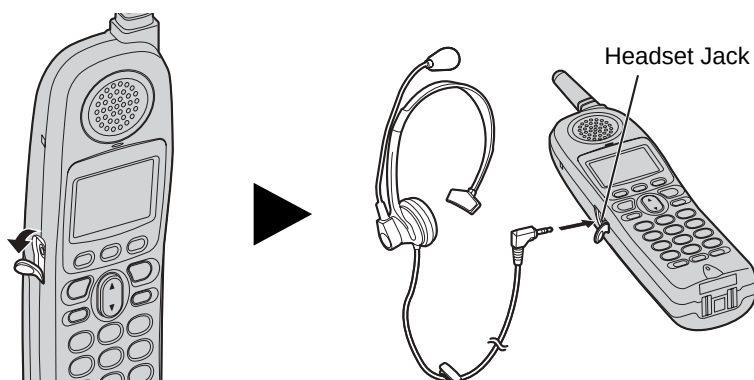


Optional Headset

Connecting an optional headset to the handset allows hands-free phone conversation. Please use only a Panasonic KX-TCA60, KX-TCA86, KX-TCA88, KX-TCA88HA, KX-TCA91, KX-TCA92, or KX-TCA98 headset. To order, call the accessories telephone number on page 2.

Connecting an optional headset

Open the headset jack cover, and insert the headset plug into the headset jack as shown below.



- Headset sold separately. Model shown here is KX-TCA88.

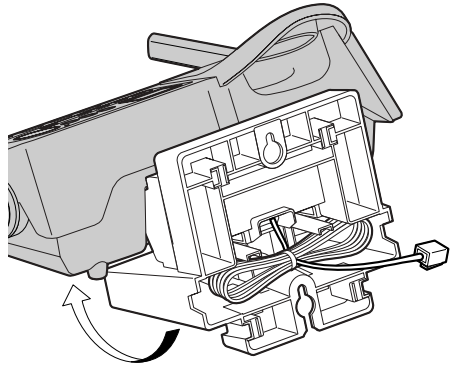
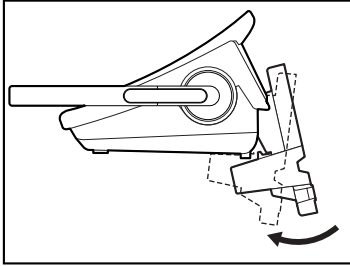
To switch to the speakerphone while using the headset:

Press [⏮]. To return to the headset, press [⏭].

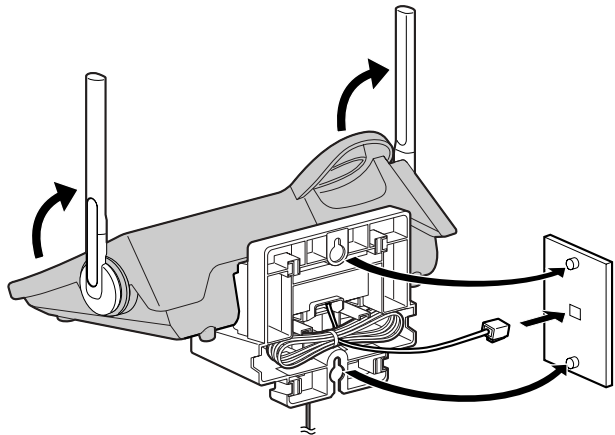


Wall Mounting

- 4** Adjust the adaptor to hold the base unit, then push it in the direction of the arrow until it clicks into place.



- 5** Connect the telephone line cord. Mount the unit, then slide it down.
- Raise the antennas.

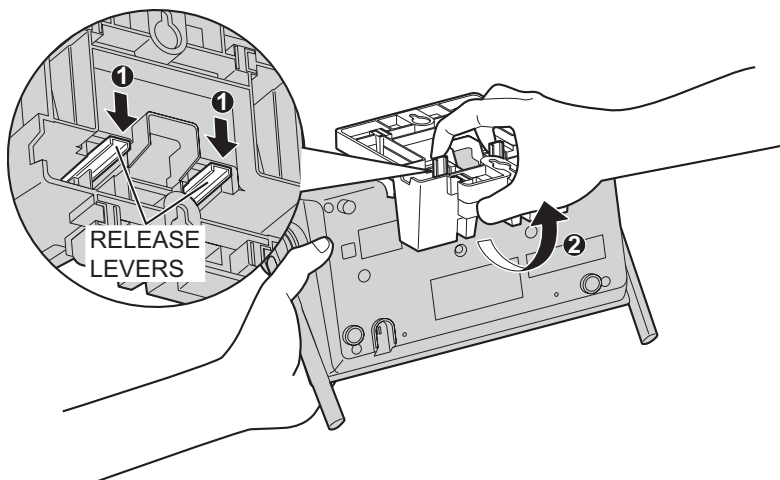


- 6 To charge the handset battery:**
Place the handset on the base unit.
- The unit beeps once and the CHARGE indicator lights.

Wall Mounting

To remove the wall mounting adaptor

While pushing down the RELEASE LEVERS (❶), remove the adaptor (❷).



Direct Commands

Handset

After pressing **[MENU]**, you can also program menu items directly by pressing (**[0]** to **[9]**, **[*]** and **[#]**) instead of using the soft keys.

Menu item	Command	Selection items	Page
Ringer volume	[1] [1]	[0] : Off [1] : Low [2] : Medium [3] : High	p. 18
Ringer tone (Handset)	[1] [2]	[1]–[3] : Tone pattern 1–3 [4]–[7] : Melody pattern 1–4	p. 19
Incoming call tone (Handset)	[1] [3]	[1] : On [2] : Twice [0] : Off	p. 57
Voice enhancer	[5]	[1] : On [0] : Off	p. 24
Talking Caller ID (Handset)	[9]	[1] : On [0] : Off	p. 28
Copy phone book –Copy 1 item	[#] [1]	Go to Step 4 on page 39.	–
Copy phone book –Copy all items	[#] [2]	Go to Step 4 on page 40.	–
LCD contrast	[0] [1]	[1]–[6] : Level 1–6	p. 21
Key tone	[0] [2]	[1] : On [0] : Off	p. 58
Auto talk	[0] [3]	[1] : On [0] : Off	p. 17
Caller ID Number Auto Edit	[0] [4]	[1] : On [0] : Off	p. 32
Set dial mode	[0] [5] [1]	[1] : Pulse [2] : Tone	p. 16
Set flash time	[0] [5] [2]	[1] : 700 ms [2] : 600 ms [3] : 400 ms [4] : 300 ms [5] : 250 ms [6] : 110 ms [7] : 100 ms [8] : 90 ms	p. 56
Set line mode	[0] [5] [3]	[1] : A [2] : B	p. 17
Store VM access#	[0] [7] [1]	Go to Step 5 on page 51.	–
VM tone detect	[0] [7] [2]	[1] : On [0] : Off	p. 52
Change language	[0] [8]	[1] : English [2] : Spanish	p. 16
Room monitor (Handset)	[0] [9]	[1] : On [0] : Off	p. 49
Message alert	[0] [#]	[1] : On [0] : Off	p. 21

Direct Commands

Menu item	Command	Selection items	Page
Ringer tone (Base unit)	[0] [*] [1]	[1]–[3] : Tone pattern 1-3 [4]–[7] : Melody pattern 1-4	p. 20
Incoming call tone (Base unit)	[0] [*] [2]	[1] : On [2] : Twice [0] : Off	p. 57
Room monitor (Base unit)	[0] [*] [3]	[1] : On [0] : Off	p. 49
Handset registration	[0] [0] [1]	Go to Step 5 on page 66.	–
Handset deregistration	[0] [0] [2]	[3] [3] [5]	p. 65
Talking Caller ID (Base unit)	[0] [*] [4]	[1] : On [0] : Off	p. 29

During programming:

When “**SAVE**” or “**OK**” is displayed, press the right soft key **to save the new settings**.

To exit programming, press **[OFF]**.

- If you press the direct command incorrectly, press **[OFF]**, then re-enter programming mode by pressing **[MENU]**.
- For function details, see the corresponding pages.

Canceling Registration/Re-registration

Canceling the Handset Registration Handset

If you no longer need to use the handset or if you want to use the handset with a different base unit of the same model, it is necessary to cancel the handset's registration from the current base unit.

Only one handset can be canceled at a time.

Make sure the handset and the base unit near each other and are not being used.

1 Press [MENU] .	
2 Scroll to "Initial setting" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Initial setting
3 Scroll to "Registration" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Registration
4 Scroll to "Deregistration" by pressing [▼] or [▲] , then press the soft key (SELECT) .	Deregistration
5 Press [3][3][5] to delete the registration memory. • If you enter a wrong code, re-enter [3][3][5] .	Deregistration Enter code:335 :335
6 Press the soft key (OK) . • The registration memory will be erased on both the handset and the base unit. • If the handset beeps 3 times, you entered a wrong code. Enter "335", then press the soft key (OK) . • To register the handset to another base unit of the same model, start from step 5 on page 66.	Ex. Extension number 2 Handset [2]  [-] Deregistered

- "[-]" is shown on the top right of the display.
- After canceling registration, the handset cannot be used. If you want to use it again, register the handset to the base unit by performing steps 5 and 6 on page 66.

Re-registering the Handset Handset & Base Unit

If you want to re-register the handset to the base unit or a different base unit of the same model, you need to register it to that base unit. The handset will be given a new extension number of that base unit. Only one handset can be registered at a time near the base unit.

Canceling Registration/Re-registration

Make sure the base unit and the other handsets are not being used. Have both the handset and base unit nearby during registration.

If you have canceled handset registration at a previous base unit (p. 65), start from step 5.

1 Handset: Press **[MENU]**.

2 Handset: Scroll to "Initial setting" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Initial setting

3 Handset: Scroll to "Registration" by pressing **[▼]** or **[▲]**, then press the soft key **(SELECT)**.

Registration

4 Handset: Press the soft key **(SELECT)** at "HS registration".

HS registration

5 Base unit:

Press and hold **[LOCATOR/INTERCOM/TRANSFER]** for 3 seconds.

- The CHARGE indicator flashes. After the CHARGE indicator starts flashing, the rest of the procedure must be completed within 1 minute.

6 Handset:

- (1) Press the soft key **(OK)**.
- (2) Wait until a long beep sounds and the display shows the new extension number (ex. extension number 2).
- Registration is complete.

Press LOCATOR
on base unit
for 3 sec.
Then press OK

Handset [2]
Registered

- You can stop registration by pressing **[OFF]** on the handset and pressing **[LOCATOR/INTERCOM/TRANSFER]** on the base unit.
- If "Wrong handset Refer to manual" is displayed, the handset you tried to register is not for this base unit. This handset is for KX-TGA520 base unit. The accessory handsets for this base unit are KX-TGA520 and KX-TGA523. To order, see page 3.

If you have not canceled the handset's registration at the previous base unit (p. 65), the handset number remains in that base unit's memory. To erase the handset number from the previous base unit, see the base unit's Operating Instructions. For the KX-TG5230 base unit: (1) Press and hold **[LOCATOR/INTERCOM/TRANSFER]** for 3 seconds, and (2) Press and hold the handset number **[1] (/)** to **[4] (/)** that you do not want for 5 seconds. A long beep sounds, then the handset number is erased.

If the Following Appear on Your Display...

The following will be displayed when the unit needs your attention.

Display message	Cause & Remedy
Recharge battery	The battery needs to be charged. Recharge the battery (p. 13).
Charge for 6 HRS	The battery has been discharged. The handset will not work. Fully charge the battery (p. 12).
No link to base. Move closer to base and try again.	- The handset has lost communication with the base unit. Walk closer to the base unit, and try again. - Confirm the base unit's AC adaptor is plugged in. - Raise the base unit antennas. - The handset's registration may have been canceled. Re-register the handset (p. 65, 66).
Please lift up and try again.	A handset button was pressed while the handset was on the base unit (or the charger, for accessory handset users, p. 3). Lift the handset and press the button again.
Busy	- The called base unit or handset is in use. - Privacy mode is on for the call you tried to join (p. 54). - The handset you tried to send phone book items to is in use. - The handset you are calling is too far from the base unit.
Invalid	- The called handset has not been registered to the base unit. - You selected your own extension number.
Error!!	- When you tried to register or deregister the handset, the handset and base unit could not link for some reason, such as interference from electrical appliances. Move the handset and base unit away from any electrical appliances and try again. - If more than one handset is in use, you may not be able to register/deregister. Try again later. - Another handset tried to send phone book items to you but copying stopped. Have the other handset user re-send the items to you (p. 39, 40).
System is busy. Please try again later.	- If more than one other user is using the handset and/or base unit, such as conducting outside/intercom calls, you may not be able to use the handset. Try again later. - The handset has lost communication with the base unit. Walk closer to the base unit and try again.

If the Following Appear on Your Display...

Display message	Cause & Remedy
Phone book full	When you tried to store an item in the phone book, the phone book memory was full. Press [OFF] to exit programming mode. To erase other items from the phone book, see page 38.
---Incomplete--- Tom Jones 098-765-4321 Phone book full (The name/number is an example.)	When the displayed item was sent to the destination handset, the phone book memory was full and copying stopped. If you tried to send all of the items, the item displayed with "Incomplete" and items after it have not been copied to the destination handset. Press [OFF] to exit (p. 39, 40). To erase items from the destination handset phone book, see page 38. You can copy all of the items again or copy the items which have not been copied one by one (p. 39, 40).
---Incomplete--- Tom Jones 555-765-4321 (The name/number is an example.)	- The destination handset is out of area. - The destination handset user may have pressed [↶] or [↷].
Phone book No items stored	Your phone book is empty. No items were copied to the destination unit.
Denied	- The Room Monitor feature is turned off on the destination handset or base unit and cannot be monitored (p. 49). - The called handset was on the base unit. The handset must be off the base unit to be monitored.
Invalid. Please register to the base unit	The handset you tried to call has not been registered to the base unit. Register the handset (p. 66, steps 5 and 6).
Store VM access#	A voice mail access number is not stored. Store the number (p. 51).
Error!! 4 handsets have already been registered.	4 handsets have already been registered to the base unit. To cancel a handset's registration, see page 65. - You may have registered one of your handsets to another base unit without deleting its registration to this base unit. Erase the handset's registration from the base unit. For the KX-TG5230 base unit: (1) Press and hold [LOCATOR/INTERCOM/TRANSFER] for 3 seconds, and (2) Press and hold the handset number [1] (↗) to [4] (↗) that you do not want for 5 seconds. A long beep sounds, then the handset number is erased.

If the Following Appear on Your Display...

Display message	Cause & Remedy
Wrong handset Refer to manual	• This handset is not for this base unit. This handset is for KX-TG6500 base unit. The accessory handsets for this base unit are KX-TGA520 and KX-TGA523. To order, see page 3.

Troubleshooting

If the handset display shows error messages, see “If the Following Appear on Your Display...” (p. 67–69) for the Cause & Remedy.

Problem	Cause & Remedy
“No link to base. Move closer to base and try again.” is displayed and an alarm tone sounds.	• The handset has lost communication with the base unit. Walk closer to the base unit, and try again. • Confirm the base unit's AC adaptor is plugged in. • Raise the base unit antennas. • The handset's registration may have been canceled. Re-register the handset (p. 65, 66).
The handset and/or base unit does not work.	• Check the settings (p. 11–13). • Check whether the dialing mode setting is correct (p. 16). • Fully charge the battery (p. 12). • Clean the charge contacts and charge again (p. 13). • Check battery installation (p. 12). • Unplug the base unit's AC adaptor to reset it. Plug in, and try again. • The handset has not been registered to the base unit. Register the handset (p. 66, steps 5 and 6). • Re-install the battery (p. 12) and fully charge it.
Static, sound cuts in/out, fades. Interference from other electrical units.	• Move the handset and base unit away from other electrical appliances (p. 6). • Walk closer to the base unit. • Raise the base unit antennas. • Turn on the Clarity Booster feature (p. 24).
The base unit and/or handset does not ring.	• The ringer volume is turned off. Set to high, medium, or low (p. 18, 19). • If more than one other user is using the handset and/or base unit, the handset/base unit may not ring. Users will hear incoming call tones (p. 57).

Troubleshooting

Problem	Cause & Remedy
The handset display is blank.	• If the handset display is blank, fully charge the battery (p. 12).
You cannot program any function items.	• Programming is not possible while the handset and/or base unit is being used. • Do not pause for over 60 seconds while programming. • Walk closer to the base unit.
While programming or searching, the handset or base unit starts to ring and the program/search stops.	• A call is coming in. To answer the call, press [📞], [📞] or [SP-PHONE]. Start again from the beginning after hanging up.
You cannot make an intercom/outside call.	• If more than one other user is using the handset and/or base unit, you may not be able to make a call. Try again later. • The handset you called is too far from the base unit.
You cannot redial.	• If the last number dialed was more than 48 digits long, the number will not be redialed correctly. • The [REDIAL/PAUSE] button on the base unit functions as either redial or pause. It will redial the last number dialed if pressed before dialing any digits (p. 25). If another number has been dialed first, it will operate as a pause button (p. 55).
You cannot make long distance calls.	• Please make sure you have long distance service.
The handset does not display the caller's name and/or phone number.	• You need to subscribe to Caller ID. • Other telephone equipment may be interfering with your phone. Disconnect it and try again. • Other electrical appliances connected to the same outlet may be interfering with Caller ID. • Telephone line noise may be affecting Caller ID. • The caller requested not to send his/her Caller ID information (p. 27). • If a call is being transferred to you, the Caller ID information will not be displayed. • If a (separate) Caller ID box is connected between the base unit and the telephone wall jack, disconnect the Caller ID box or plug the unit directly into the wall jack.

Problem	Cause & Remedy
The handset and/or base unit does not announce the displayed caller's name.	- The handset and/or base unit ringer volumes are turned off. Set to high, medium, or low (p. 18, 19). - The Talking Caller ID feature is turned off. Turn it on (p. 28, 29).
The handset and/or base unit does not announce the displayed caller's name properly.	- Name pronunciation may vary. Name pronunciation quality is based on names most commonly used in the United States. - The handset and/or base unit will announce each letter of abbreviations, such as "Co." and "Inc." - Caller ID supports names of up to 15 letters. If the caller's name has more than 15 letters, the name will not be announced correctly.
The handset cannot automatically edit the Caller List/incoming phone numbers.	- The Caller ID Number Auto Edit feature is turned off. Turn it on (p. 32) and try again. - You need to press [↩] or [⏮] after editing the number.
The handset display exits the Caller List or phone book.	Do not pause for over 60 seconds while searching.
"Recharge battery" is displayed, "🔋" flashes, or the handset beeps intermittently.	Fully charge the battery (p. 12).
"Charge for 6 HRS" and "🔋" are displayed and the handset does not work.	The battery has been discharged. Fully charge the battery (p. 13).
You charged the battery fully, but "Recharge battery" is still displayed and/or "🔋" continues to flash, or "Charge for 6 HRS" and "🔋" are displayed.	- Clean the charge contacts and charge again (p. 13). - The battery may need to be replaced. If you install a new battery, fully charge it (p. 12, 13).
The CHARGE indicator does not go out after the battery has been charged.	This is normal.
The Ringer/Message Alert indicator flashes slowly when the handset is not ringing and in use.	The Message Alert is turned on and new messages in your voice mailbox have been recorded. Turn the Message Alert off (p. 21) or listen to the new messages (p. 53).

Troubleshooting

Problem	Cause & Remedy
You cannot have a conversation using the headset.	• Make sure the optional headset is connected properly (p. 59). • If "SP-phone" is displayed on the handset, press [>] to switch to the headset.
If you cannot solve your problem	• Visit our website: http://www.panasonic.com/support • Contact us via the web at: http://www.panasonic.com/contactinfo • Call our customer call center at: 1-800-211-PANA(7262)

Important Safety Instructions

When using this unit, basic safety precautions should always be followed to reduce the risk of fire, electric shock, or personal injury.

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from AC outlets before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit near water, for example, near a bathtub, washbowl, kitchen sink, or the like.
5. Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
6. Do not cover slots and openings on the unit. They are provided for ventilation and protection against overheating. Never place the unit near radiators, or in a place where proper ventilation is not provided.
7. Use only the power source marked on the unit. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
8. Do not place objects on the power cord. Install the unit where no one can step or trip on the cord.
9. Do not overload wall outlets and extension cords. This can result in the risk of fire or electric shock.
10. Never push any objects through slots in this unit. This may result in the risk of fire or electric shock. Never spill any liquid on the unit.
11. To reduce the risk of electric shock, do not disassemble this unit. Take the unit to an authorized servicer when service is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the unit is subsequently used.
12. Unplug this unit from the wall outlet and refer servicing to an authorized servicer when the following conditions occur:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the unit.
 - C. If the unit has been exposed to rain or water.
 - D. If the unit does not work normally by following the operating instructions. Adjust only controls covered by the operating instructions. Improper adjustment may require extensive work by an authorized servicer.
 - E. If the unit has been dropped or physically damaged.
 - F. If the unit exhibits a distinct change in performance.
13. During thunderstorms, avoid using telephones except cordless types. There may be a remote risk of an electric shock from lightning.
14. Do not use this unit to report a gas leak, when in the vicinity of the leak.

SAVE THESE INSTRUCTIONS

Important Safety Instructions

CAUTION:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery(ies) specified.
2. Do not dispose of the battery(ies) in a fire. They may explode. Check with local waste management codes for special disposal instructions.
3. Do not open or mutilate the battery(ies). Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.
5. Charge the battery(ies) provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

- The AC adaptor is used as the main disconnect device, ensure that the AC outlet is located/installed near the unit and is easily accessible.

FCC and Other Information

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:ACJ-----.

If requested, this number must be provided to the telephone company.

Registration No. (found on the bottom of the unit)
Ringer Equivalence No. (REN) 0.1B

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3).

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact a Factory Servicenter or other Authorized Servicer. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

WHEN PROGRAMMING EMERGENCY NUMBERS AND/OR MAKING TEST CALLS TO EMERGENCY NUMBERS:

- 1) Remain on the line and briefly explain to the dispatcher the reason for the call.
- 2) Perform such activities in the off-peak hours, such as early morning or late evenings.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Privacy of communications may not be ensured when using this phone.

FCC and Other Information

CAUTION:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Some cordless telephones operate at frequencies that may cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless telephone should not be placed near or on top of a TV or VCR. If interference is experienced, move the cordless telephone further away from the TV or VCR. This will often reduce, or eliminate, interference.

Operating near 5.8GHz electrical appliances may cause interference. Move away from the electrical appliances.

FCC RF Exposure Warning:

This product complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF exposure requirements the base unit must be installed and operated with its antenna located 20 cm or more between antenna and all person's body (excluding extremities of hands, wrist and feet). The handset unit may be carried and operated with only the specific provided belt-clip. Other non-tested belt-clips or similar body-worn accessories may not comply and must be avoided. The base and handset units must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment is hearing aid compatible as defined by the FCC in 47 CFR Section 68.316.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

A TIA/EIA-IS-968 compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack that is also TIA/EIA-IS-968 compliant.

FCC and Other Information

- **Environment** — do not place the unit in a room where the temperature is less than 5°C (41°F) or greater than 40°C (104°F). Allow 10 cm (4") clearance around the unit for proper ventilation. Avoid excessive smoke, dust, mechanical vibration, shock, or direct sunlight.
- **Medical** — consult the manufacturer of any personal medical devices, such as pacemakers or hearing aids, to determine if they are adequately shielded from external RF (radio frequency) energy. (The unit operates in the frequency range of 5760MHz to 5840MHz, and the power output level can range 0.25 to 0.5 watts.) Do not use the unit in health care facilities if any regulations posted in the area instruct you not to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF (radio frequency) energy.
- **Routine care** — wipe the unit with a soft cloth. Do not use benzine, thinner, or any abrasive powder. When you leave the unit unused for a long period of time, unplug the AC adaptor from the outlet.
- **If there is any trouble** — disconnect the unit from the telephone line and connect a known working phone. If the known working phone operates properly, have your unit repaired by one of the authorized Panasonic Factory Service Centers. If the known working phone does not operate properly, consult your telephone company.

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Specifications

■ Handset

Power Supply:	Ni-MH battery (3.6 V, 830 mAh)
Frequency:	5.76 GHz – 5.84 GHz
Dimensions (H x W x D):	Approx. 220 mm x 53 mm x 37 mm (8 ²¹ / ₃₂ " x 2 ³ / ₃₂ " x 1 ¹⁵ / ₃₂ ")
Mass (Weight):	Approx. 210 g (0.46 lb.)
Security Codes:	1,000,000

■ Base Unit

Power Supply:	AC adaptor (120 V AC, 60 Hz)
Power Consumption:	Standby: Approx. 2.5 W Maximum: Approx. 6.0 W
Frequency:	5.76 GHz – 5.84 GHz
Dimensions (H x W x D):	Approx. 107 mm x 251 mm x 135 mm (4 ⁷ / ₃₂ " x 9 ²⁷ / ₃₂ " x 3 ⁶ / ₁₆ ")
Mass (Weight):	Approx. 470 g (1.04 lb.)

■ **Dialing Mode:** Tone (DTMF)/Pulse

■ **Operating Environment:** 5 °C – 40 °C (41 °F – 104 °F)

Specifications are subject to change without notice.

Energy Star:

As an ENERGY STAR® Participant, Panasonic has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.



For your future reference

Serial No. _____

Date of purchase _____

(found on the bottom of the unit)

Name and address of dealer _____

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lie

**If you need assistance with setup or operation, please
call 1-800-211-PANA(7262)**

For hearing or speech impaired TTY users, TTY : 1-877-833-8855